ITS Technical Bulletin 196
NEW RELEASE OF ADABAS - VERSION 5.3.2

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                      December 4, 1994 - Production
Section/Groups: DataBase Group
Submitted By: Mark Nielsen
Approved By: Sandra Neal

GENERAL INFORMATION
A new release of ADABAS, V5.3.2, will be implemented on the mainframe during November and December of 1994. The schedule and the bases effected are listed below.

Environment	Date	Databases
Development	11/13/94	ADABASD1, ADABASD2, ADABASED
Production	12/04/94	ADABASGG, ADABASCJ, ADABASHS, ADABASAT, ADABASEP, ADABASTR, ADABASM1

ADABAS VERSION 5.3.2 ENHANCEMENTS
Up to 20 Superdescriptor Parent Fields

Long Alphanumeric (LA) fields, up to 16KB

Up to 191 Periodic (PE) Group Occurrences

SQL Null Value Compatibility

To satisfy the requirement of the ADABAS SQL SERVER (ESQ) as well as other standard SQL query languages, ADABAS 5.3 offers data indicators and command options to allow "true" null value and "not null allowed" data representation. These functions are also available for direct calls.

Multifetch Feature

The Multifetch feature reduces the communication overhead between the application program and the ADABAS nucleus. Multifetch buffers multiple record results from a single call, and then transfers the records to the user.

Multifetch operation is similar to the existing Prefetch feature. Prefetch is a functional subset of Multifetch. Multifetch feature includes the same functionality as the Prefetch, plus compatibility with multiplatform environments.

Users of the current ADABAS command-level Prefetch (P) option should begin to using the multifetch (M) option instead.

Natural and SQL applications invoke Prefetch through ADARUN parameters. The settings PREFETCH=YES or PREFETCH=OLD enable the Prefetch feature. PREFETCH=YES uses the newer prefetch technique enabled by the command-level multifetch (M) option. PREFETCH=OLD uses the established ADABAS prefetching technique enabled by the command-level prefetch (P) option.

The Natural Prefetch procs supported by the DBA staff have the setting PREFETCH=YES.

Current Prefetch feature, option (P), will be removed in future releases of ADABAS.

Multiclient Support

The multiclient feature stores records for multiple users (or groups of users) within a single ADABAS file. This feature, an option applicable to individual physical ADABAS files, divides a physical ADABAS file into a number of logical files. Each user or group of users can access only a subset of the records in the file. Changing from a single-client to multiclient environment is done by redefining the ADABAS file.

ADASMP - ADABAS Support for Multiprocessing

ADASMP (ADABAS Support for Multiprocessing) allows a single physical database to be accessed simultaneously by more than one nucleus. ADASMP allows one updating nucleus and multiple read-only nuclei. This makes full use of multiprocessor systems by allowing the following operations to run in parallel:

> Compression
> Decompression
> Format Buffer translation
> Sorting
> Retrieval
> Searching

This feature will be implemented at a later date.

Call Database Administration, 538-3235, if you have any questions.